

What Is Claimed Is:

1. A fuel injector (1), in particular a fuel injector (1) for fuel-injection systems of internal combustion engines, comprising a piezoelectric or magnetostrictive actuator (4) which actuates a valve-closure member (15), which is arranged in a housing (2) and cooperates with a valve-seat surface (16) **[to form]** a sealing seat, and an hydraulic coupler (10), wherein the hydraulic coupler (10) has a downstream recess (13) in which one end (12) of a valve needle (11) is engaged in a pivotable manner.
2. The fuel injector as recited in Claim 1, wherein the recess (13) has a conical shape.
3. The fuel injector as recited in Claim 1 or 2, wherein the recess (13) widens in a discharge direction.
4. The fuel injector as recited in one of the Claims 1 through 3, wherein the inflow-side end (12) of the valve needle (11) has a rounded region (20).
5. The fuel injector as recited in Claim 4, wherein the rounded region (20) is in the shape of a cap or hemisphere.
6. The fuel injector as recited in Claim 4 or 5, wherein the rounded region (20) rests in the recess (13) by way of a circular contact line (21).